ABSTRACT

The present invention relates to an optical head device, an optical recording device, and an optical recording method, and an object of the present invention is to enable to acquire optimum recording characteristics of an optical recoding medium having multiple data layers, with respect to each of the multiple data layers without increasing learning time required for learning a relation between aberration amount and optimum recording compensation with respect to each of the multiple data layers. To accomplish this object, the optical head device, the optical recording device, and the optical recording method of the present invention are constructed such that the wavefront converting means 4 is driven in such a manner as to reduce the aberration amount detected by the aberration detecting means 12. The output controlling means 13 holds learned data as to the relation between the driving amount of the wavefront converting means 4 and the output of the light source 1, and controls the output of the light source 1 based on the driving amount of the wavefront converting means 4 and the learned data.